

MEASLES UPDATE

National Immunization Program, Centers for Disease Control & Prevention

Current Measles Activity through Wk 23 (ending June 8 , 2002)

Measles Cases Reported to MMWR

(U.S. only):

Cumulative Total - 2002 9

Cumulative Total - 2001 74
(through Week 23)

Number of OUTBREAKS this year in the U.S. 2
(Outbreak = 3 or more linked cases)

Long Beach, CALIFORNIA

No. of confirmed cases: 3

No. of cases reported to MMWR: 3

Rash onsets: 2/8/02 - 2/11/02

Ages: 10 years, 25 years & 40 years

Source: Unknown

Transmission Setting: Hospital

Genotyping: N/A

A 3-case outbreak in Long Beach included an immunized 10-year-old male (history of 1MMR @ 12 mos) and 2 unimmunized hospital employees. A source of infection could not be found in their common hospital setting. All three cases met case definition and were IgM positive for measles.

Brooklyn, NEW YORK

No. of confirmed cases: 3

No. of cases reported to MMWR: 3

Rash onsets: 3/8/02 - 4/4/02

Source: Import from PAKISTAN

Transmission Settings: International Travel & Home

Genotyping: N/A

The first identified case for this outbreak was a 2 ½ month old male who was hospitalized with rash illness 4/4. Investigation revealed the infant's 20-year-old mother had also been hospitalized recently; rash onset 3/21. The 20-year-old had been tested for measles while hospitalized but was IgM negative initially. Further tracing revealed the mother's source of infection to be a 7-month-old nephew, also of Brooklyn, who had returned from Pakistan prior to a rash illness. The 7-month-old had rash onset on 3/8. His only reported symptom was said to be a rash. All three cases were IgM positive for measles.

NYC: Two other cases, both 11-month-olds, have been sero-confirmed as having measles by NYC/CDC. These are not linked to one another or to the above Brooklyn (Pakistan) cluster. Five (5) cases have been confirmed and reported to MMWR by New York City as of Week 23, 2002.

Total No. of New Cases (U.S. only) Reported to MMWR during Weeks 1-23 9

FLORIDA (Week 7) 1

Manatee County officially reported a confirmed case in an unimmunized 18-month-old female with rash onset date of 2/16. The child traveled with her family to Miami on Jan 31 then they flew to a resort in the Dominican Republic February 1 to February 4. Her rash began 12 days after their return on 2/16. Lab results were positive

for measles at the State lab and she met the case definition. PAHO investigated and were unable to find any cases in the resort area. No other cases were identified in Manatee & surrounding Florida counties or in Miami/Dade County. No viral specimens were obtained.

CALIFORNIA (Weeks 6-7) 3

See Long Beach cluster of 3 confirmed in a hospital setting with rash onsets 2/7-11. Source of infection is unknown.

NYC (Weeks 10-14) 3

See Brooklyn outbreak of 3 cases with source identified as an IMPORTATION from Pakistan.

NYC (Week 14) 1

New York County (Manhattan) reported one single import from Pakistan in an 11-month-old with rash onset 4/6. Genotype: D4.

NYC (Week 17) 1

Brooklyn reported one unknown source case in an 11-month-old with rash onset 4/23. Genotype: D8.

Recent Measles Outbreak in GUAM:

No. of confirmed cases: 10

Rash onsets: - 3/28/02 - 5/31/02

Source: Unknown

Genotype: D5

As of June 5, 2002, 10 of 81 suspected cases reported to the Guam Department of Health have been confirmed through laboratory testing or epi-links to earlier lab confirmed cases. Three cases required hospitalization for pneumonia. To date there have been no deaths. The last confirmed case had rash onset on May 31. CDC Measles Lab reports that their studies of measles virus isolated from Guam cases show it to be a genotype common in Japan that has been identified before in outbreaks associated with Japanese tourists, including an outbreak on Palau in 1993. Genotype: D5. Most cases have been among preschool aged children. Ages range from 15 months to 20 years with rash onsets 3/28 - 5/31.

Note to Immunization Program Managers:

Please take a moment to review your State's 2001 total for measles case records received at CDC via NETSS as of 6/13/02.

STATE	Total Measles Confirmed
AZ	1 indigenous
CA	15 imports & 25 indigenous
CT	1 indigenous
GA	1 import
HI	5 imports & 2 indigenous
ID	1 import
IL	3 imports
IN	4 imports
KY	2 indigenous
MD	1 import/2 indigenous
MA	1 import/2 indigenous
MN	2 imports/2 indigenous
MO	2 imports
NJ	1 import
NYS	4 imports
NY CITY	4 imports/3 indigenous

OH	3 imports
OR	3 indigenous
PA	4 imports/4 indigenous
TX	1 import
VT	1 indigenous
VA	1 indigenous
WA	2 imports/13 indigenous
provisional total US	116 (54 imports)

Week 23, 2002								
MEASLES CASES as of June 14 , 2002								
#	Proj	Age/DOB	Rash Onset	VAX	Spread Cases	Reported to MMWR	Viral Specimens Received	Comments/Source Country
1	CA	10 year old male	2/8/02	Y	No	Yes	No	Outpatient in Long Beach Hospital Source Unknown; part of 3-case OUTBREAK VACCINATED AT 51 weeks of age
2	CA	25 year old male	2/11/02	N	No	Yes	No	Hospital employee in Long Beach Source Unknown; part of 3-case OUTBREAK
3	CA	40 year old male	2/11/02	N	No	Yes	No	Hospital employee in Long Beach Source Unknown: part of 3-case OUTBREAK
4	FL IMPORT	18 month old female	2/16/02	N	No	Yes	No	U.S. resident in Manatee County / I MPORT Travel to Miami 1/31 & Dominican Republic 2/1-4
5	NYC IMPORT	7 month old male	3/8/02	N	Yes (1)	Yes	No	IMPORT from Pakistan Source for Brooklyn OUTBREAK Infected 20-year-old aunt with rash onset 3/21
6	NYC	20 year old female	3/21/02	N	Yes (1)	Yes	No	Traceable to Import from Pakistan (case #5) Brooklyn OUTBREAK Infected her 2.5 month old son with rash onset 4/4
7	NYC	2.5 month old male	4/4/02	N	Unk	Yes	?	Traceable to Import from Pakistan Brooklyn OUTBREAK Source is case #6
8	NYC IMPORT	11 month old female Manhattan (DOB 4-01)	4/6/02	N	Unk	Yes	Yes, D4	Single IMPORT/ Pakistan Genotype D4 Not outbreak related
9	NYC	11 month old female Brooklyn (DOB 5-01)	4/23/02	N	Unk	Yes	Yes, D8	Unknown source Reported as import but should be indigenous unless there was international travel

2002 Measles Outbreaks (3 or more cases)							
case							
	Proj	Location	1 st & Last Rash	#Conf Cases	Ages	Source	Comments
1	CA	Long Beach	2/8/02 - 2/11/02	3	10 years, 20 years, 40 years	Unknown	Source unknown, hospital setting. No viral specimens collected.
2	NYC	Brooklyn	3/8/02 - 4/4/02	3	2.5 months - 20 yrs	Pakistan	All epi-linked, relatives

Please send questions or comments to Dr. Mark Papania, Acting Chief or Ms. Susan Redd of the National Immunization Program via e-mail to: sbr1@cdc.gov, fax (404) 639-8665, or call (404) 639-8763. We appreciate knowing of any measles activity in your project area.